

# DUTY STATEMENT



CURRENT  
 PROPOSED

CIVIL SERVICE CLASSIFICATION Research Scientist V (Epidemiology/Biostatistics)		WORKING TITLE Epidemiologist		
PROGRAM NAME Division of Occupational Safety and Health			UNIT NAME Research & Standards Unit	
ASSIGNED SPECIFIC LOCATION Oakland			POSITION NUMBER 400- 432-5629-987	
BARGAINING UNIT R10	WORK WEEK GROUP E	BILINGUAL POSITION No	CONFLICT OF INTEREST FILER No	BACKGROUND CHECK No

## General Statement

Under administrative direction of the Deputy Chief in the Research & Standards Unit, the Research Scientist V (Epidemiology/Biostatistics) serves as Division of Occupational Safety and Health (DOSH)'s epidemiology expert. In the support of the Research & Standards Health unit rulemaking projects, the incumbent plans and conducts original research into the development and application of novel risk assessment methods that augment DOSH's ability to perform timely evaluations of unaddressed extreme heat conditions as well as chemicals that have little or no toxicology testing in laboratory animals; serves as a subject-matter expert in biostatistics who makes independent decisions on the analysis of large, complex datasets that include data from new approach methods (NAMs, e.g., computational modeling, in-vitro tests, assays in alternative animal species) to predict human risks; applies new computational-toxicology approaches to develop hazard and dose-response assessments that can support regulatory standards for unassessed chemicals and chemical groups that are of high priority or emerging interest due to new or increasing use by California workers leading to increased health risk. The Research Scientist V (Epidemiology/Biostatistics) will perform the following duties and other related work:

Candidates must be able to perform the following essential functions with or without reasonable accommodations.

Percentage of Time Spent	Duties <u>Essential Job Functions</u>
35%	Conduct complex and advanced quantitative and/or qualitative research using principles and procedures of scientific research planning, design, methodology and analysis to facilitate development of a new risk science framework. Independently plan and organize major scientific research studies that are complex and have statewide sensitivity and policy impact. Make scientific theories and principles to develop and test hypothesis on causes. Direct original research of their own design utilizing surveys, data collection and analysis and/or field studies as appropriate to identify the source of human illness or injury in the workplace, and develop and validate original methods to prevent or Control its occurrence; and to develop key indicators to measure the effectiveness of those controls. These studies are used to advise the Chief of DOSH, the Director of the Department of Industrial Relations and the leadership of the Labor Workforce and Development Agency in the area of occupational safety and health regulations and standards, and on legislation potentially affecting DOSH by preparing scientific written reports, oral presentations and/or multi-media presentations as

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	appropriate.
<b>30%</b>	Independently develop hazard and dose-response assessments for unassessed Chemicals utilizing their own theory or hypothesis or building on a theory or hypothesis proposed by other senior staff. Apply new computational-toxicology approaches to develop hazard and dose-response assessments for unassessed chemicals and chemical groups with little or no toxicology testing in laboratory animals. Consult with various programs in the California Department of Industrial Relations, such as DOSH and the Employment Development Department (EDD), other State agencies, such as the California Department of Public Health, the California Environmental Protection Agency, and Federal public health agencies to ensure that these assessments will meet their needs and can support regulatory standards. Refine these new approaches and assessments based on advice from an external advisory panel to ensure that the new approaches and assessments are scientifically sound and can support state action to protect worker health. Independently provide interpretation of research findings for use in public health policy development. Present assessment methods and findings in scientific journals and publications, and at scientific meetings to build understanding and acceptance of the novel risk assessment methods and results.
<b>20%</b>	Independently design, conduct, analyze and draw conclusions from Epidemiological or bio-statistical surveys and investigations. The incumbent will utilize original methods or techniques to describe and understand the distribution and determinants of disease, chemical or physical agents such as extreme heat in the work environment that lead to increased risk of work related illness, whenever new hazards are identified.
<b>10%</b>	Serve as subject matter expert in support of DOSH rule-making projects. Incumbent will provide scientific support and direction for the legal, legislative, and regulatory actions that occur in the health policy development, and serve on advisory committee panels as DOSH expert when presenting newly identified hazards and scientific study findings during the pre-rulemaking and formal rule-making process.
<b>Percentage of Time Spent</b>	<b>Marginal Job Functions</b>
<b>5%</b>	Performs other job-related duties as assigned as required to fulfill DIR-DOSH mission goals, and objectives.

## Conduct, Attendance, and Performance Expectations

This position requires the incumbent to maintain consistent and regular attendance; communicate effectively (orally and in writing) in dealing with the public and/or other employees; develop and maintain knowledge and skills related to specific tasks, methodologies, materials, tools, and equipment; complete assignments in a timely and efficient manner; and, adhere to departmental policies and procedures. The incumbent is expected to be highly independent and self-motivated, manage multiple projects simultaneously, be responsive to requests from managers and executives, and be able to present sensitive information on high-profile projects with discretion. The incumbent serves as the department's top expert in that field. The incumbent may advise executive staff on complicated research projects and studies.

## Supervision Received

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Under the administrative direction of the Deputy Chief in the Research & Standards Unit or designee.

### Supervision Exercised

None

### Work Environment, Special Requirements/Other Information, Physical Abilities, Additional Requirements/Expectations, and Personal Contacts

#### Work Environment

The incumbent works in an air conditioned office building with natural and artificial lighting and temperature control. In addition, the incumbent works in a cubicle in close proximity to others in a typical office setting. Typical work requires use of the computer and telephone for extended periods of time.

#### Special Requirements/Other Information

The incumbent must demonstrate the ability to establish and maintain cooperative working relationships with staff at all levels both within and outside of DIR to complete work assignments. The incumbent must exercise the ability to work independently. The incumbent must demonstrate the ability to use the internet, email, phone, and desktop applications to complete assignments.

#### Physical Abilities

This position requires the ability to sit, stand, and use a computer for extended periods.

#### Additional Requirements/Expectations

Required to travel for work as assigned or training to other office locations. May occasionally be required to work overtime as necessary.

#### Personal Contacts

The incumbent will have contact with the public, employers, employees, other government agencies, stakeholders, and DOSH and DIR staff.

#### Employee Acknowledgment

*I have read and understand the duties listed above and certify that I possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform these assigned duties as described above with or without reasonable accommodation. If you believe a reasonable accommodation is necessary, discuss your concerns with the hiring supervisor. If unsure of a need for a reasonable accommodation, inform the hiring supervisor who will discuss your concerns with the Diversity and Inclusion Office.*

Employee Name

Employee Signature

Date

#### Supervisor Acknowledgment

